

source, so that said first supervisory signal is adapted to modulate said pumping radiation for Raman amplification.

IN THE ABSTRACT:

Replace the abstract originally provided on the cover sheet of the PCT application with the new abstract as follows. A new abstract numbered page 38 is enclosed as the last page of the application following the claims.

ABSTRACT OF THE DISCLOSURE

An optical transmission system having a supervisory system of devices disposed along an optical link. Counter-propagating Raman amplifiers are disposed along the optical link. Low-frequency supervisory signals are superimposed on the optical signals traveling on the optical link by suitable modulators in the devices disposed along the line. Counter-propagating Raman amplifiers amplify optical signals and do not introduce a substantial amount of attenuation on the low-frequency supervisory signals.